

10/530049

JC17 Rec'd PCT/PTO 04 APR 2005

Attorney Docket No. 1826.1063

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Patent Application of:

Rainer HAINBERGER

Application No.: Unassigned

Group Art Unit: Unassigned

Filed: April 4, 2005

Examiner: Unassigned

For: RAMAN AMPLIFICATION SYSTEM UTILIZING MODULATED SECOND-ORDER
RAMAN PUMPING

INFORMATION DISCLOSURE STATEMENT

Commissioner for Patents
PO Box 1450
Alexandria, VA 22313-1450

Sir:

In accordance with the duty of disclosure provisions of 37 CFR § 1.56, there is hereby provided certain information which the Examiner may consider material to the examination of the subject U.S. patent application. It is requested that the Examiner make this information of record if it is deemed material to the examination of the subject application.

1. Enclosures accompanying this Information Disclosure Statement are:
 - 1a. Form PTO-1449.
 - 1b. Copy(ies) of IDS citation(s), except for U.S. Patents and U.S. Patent Application publications.
 - 1c. English language copy of a communication(s) from a foreign Patent Office or a PCT International Search Report.
 - 1d. English language translation (complete, Abstract or relevant portion(s)) attached to non-English language publications as indicated on the attached Form PTO-1449.
 - 1e. Explanations of Relevancy of References (ATTACHMENT 1(e), hereto) for providing a concise explanation of non-English publications.
2. In accordance with 37 CFR § 1.98, a concise explanation of what is presently understood to be the relevance of each non-English language publication is
(Check appropriate Items 2a, 2b, 2c and/or 2d)
 - 2a. satisfied for the non-English language publication(s) cited on the enclosed "English language version of the search report or action which indicates the degree of relevance found by the foreign office". (See MPEP § 609, Minimum Requirements for an Information Disclosure Statement, Part A(3); Concise Explanation of Relevance, 8th Ed., Rev. 2)04/01/20052b.

10/530049

JC17 Rec'd PCT/PTO 04 APR 2005

- 2b set forth in the application.
- 2c. satisfied for the non-English language publication(s) indicated on the attached PTO-1449 as having an English language translation (complete, Abstract or relevant portion(s)) attached thereto.
- 2d. enclosed as Attachment 1(e), hereto.
3. No admission is made that the information cited in this Statement is, or is considered to be, material to patentability nor a representation that a search has been made (other than search report(s) from a counterpart foreign application or a PCT International Search Report, if submitted herewith). 37 CFR §§ 1.97(g) and (h).

Respectfully submitted,

STAAS & HALSEY LLP

Dated: 4/25
1201 New York Ave., N.W., Suite 700
Washington, D.C. 20005
Telephone: (202) 434-1500
Facsimile: (202) 434-1501

By: 
J. Randall Beckers
Registration No. 30,358

JC17 Rec'd PCT/PTO 04 APR 2005

FORM PTO-1449	U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE	ATTORNEY DOCKET NO. 1826.1063	APPLICATION NO. 107530049 Unassigned
INFORMATION DISCLOSURE STATEMENT <i>(Use several sheets if necessary)</i>		FIRST NAMED INVENTOR Rainer HAINBERGER	
		FILING DATE April 4, 2005	GROUP ART UNIT Unassigned

U.S. PATENT DOCUMENTS

*EXAMINER INITIAL		DOCUMENT NO.	DATE	NAME	CLASS	SUB-CLASS	FILING DATE
	AA						
	AB						
	AC						

FOREIGN PATENT DOCUMENTS

		DOCUMENT NO.	DATE	COUNTRY	TRANSLATION YES NO	ABSTRACT
	AD	1022870	07/26/2000	Europe		
	AE	1148666	10/24/2001	Europe		
	AF	1298766	04/02/2003	Europe		

OTHER REFERENCES (INCLUDING AUTHOR, TITLE, DATE, PERTINENT PAGES, ETC.)

			TRANSLATION YES NO
	AG	L. Labrunie et al., "1.6 Terabit/s (160 X 10.66 Gbit/s) unrepeated transmission over 321 km using second order pumping distributed Raman amplification", OAA, 2001, pp. PD3-1~PD3-3.	
	AH	Karsten Rottwitt et al., "Transparent 80 km Bi-Directionally Pumped Distributed Raman Amplifier with second order pumping" ECOC' 99,26-30, Nice, France, September 1999, pp. II-144~II-145.	
	AI	Y. Hadjar et al., "Quantitative analysis of second order distributed Raman amplification", OFC 2002 Thb, March 21, 2002, pp. 381-382.	
	AJ	S. B. Paperny et al., "Third-Order Cascaded Raman Amplification", OFC 2002 Post deadline Papers, pp. FB-1~FB4-3.	
	AK	C. R. S. Fludger et al., "Novel Ultra-broadband High Performance Distributed Raman Amplifier Employing Pump Modulation", OFC 2002 WB4, March 20, 2002, pp. 183-184.	
	AL	C. R. S. Fludger et al., "Pump to Signal RIN transfer in Raman Fiber Amplifiers", Journal of Light wave Technology, Vol. 19, No. 8, August 2001, pp. 1140-1148.	

EXAMINER

DATE CONSIDERED

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

JC17 Rec'd PCT/PTO 04 APR 2005

ATTORNEY DOCKET NO.	
1826.1063	
APPLICATION NO.	
107530049 Unassigned	
FIRST NAMED INVENTOR	
Rainer HAINBERGER	
FILING DATE	GROUP ART UNIT
April 4, 2005	Unassigned

EXPLANATIONS OF RELEVANCY OF REFERENCES

References AD, AE and AF were cited in the enclosed International Search Report.

References AG, AH, AI, AJ, AK and AL were cited in the specification.